Name(s) of Risk Team Members: J. Scott, M. VanEssendelft, D. Passarello, J. Montalto		Point Value → Parameter ↓	1		1			2	3		4			5		
Area/Facility Description Title: Collider-Accelerator Department, Buildings 918, 926, 974 & 1101  Area/Facility # (if applicable): Area-Wide FRA 18-08		Occupancy or Use	≤once/year		ır		≤once/month	≤once/week	≤once/shift		ft >once/shift		e/shift			
Area/Facility Description: Area-Wide Warehouses		Severity	First Aid Only		nly	1	Medical Treatment Lost Time		Partial Disability		ity	Death or Permanent Disability				
Approved by: E. Lessard Date: 4-2-08 Rev.#: 0			Likelihood	Extremely U			emely Unlikely		Unlikely Possible		Probable			Multiple		ıltiple
Reason for Revision (	f applicable):									Comments:						
Annual Review																
					Be		Additi ntrols	onal				F		Addition on trols		
Physical Item or Activity	Hazard(s)	Control(s)				Severity B	Likelihood C	Risk* AxBxC	Contro	(	Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction	
Material Handling	See Facility-Wide Material Handling Evaluation	See Facility-Wide Material Handlin	g Evaluation													
House Keeping	See Facility-Wide House Keeping Evaluation	See Facility-Wide House Keeping Evaluation														
Fire	See Facility-Wide Fire Evaluation	See Facility-Wide Fire Evaluation														
Electrical, up to 480 V ac	Shock or electrocution from exposed wiring, flash hazard, overheated wiring if not properly installed, overused or in disrepair, improper grounding	All equipment is listed or reviewed by CEE; Tier 1 inspections; disconnected cable policy; installations comply with applicable codes; procedures; training; distribution drawings; LOTO; working hot permits; qualified electricians and technicians; cabinet interlocks; postings; locked areas; guarding; work planning; GFCI; grounding standards; emergency procedures; two-person rule for hot work; PPE as per SBMS "Electrical Safety"			4	4	1	16								
Manual material handling	Overexertion – injuries caused by excessive lifting, pushing, pulling, holding, carrying or throwing of an object	Gloves, hardhat, handcarts, dollies, weight limit of 44 lbs. work planning			4	3	3	36								
Work at heights	Falls to lower level, such as falling from a ladder or over a railing	Postings, barriers, fall protection, m work planning, procedures, Tier 1 is approved scaffolding and platforms slip surfaces	nspections, PPE,		4	5	2	40								

Droggurized Systems	Poing struck by an	Postings DDE maintanance training work planning	1	2	1 2	24	
Pressurized Systems	Being struck by an object due to a pressure	Postings, PPE, maintenance, training, work planning, certification/testing of pressure related equipment, Tier 1	4	3	2	24	
	release	inspection					
Pressurized Systems	Contact with	Postings, PPE, maintenance, training, work planning,	3	3	2	18	
	temperature – steam	certification/testing of pressure related equipment, Tier 1					
	that result in burns	inspection					
Walking Surfaces	Falls on same level	Postings, barriers, maintenance, work planning, work	4	3	2	24	
		platforms, Tier 1 inspection					
Chemical Handling	Burns	Procedures, compliance with regulations, training, CMS	3	3	2	18	
		inventory, MSDS, volume controls, Fire/Rescue group					
		response, PPE as required, locked or controlled areas,					
		postings, labeling, proper containers, segregation, spill					
		cleanup equipment available, Tier 1 inspections					
Chemical Handling	Asphyxiation	Procedures, compliance with regulations, training, CMS	3	3	2	18	
		inventory, MSDS, volume controls, Fire/Rescue group					
		response, PPE as required, locked or controlled areas,					
		postings, labeling, segregation, Tier 1 inspections					
Chemical Handling	Eye exposure	Procedures, compliance with regulations, training, CMS	3	4	2	24	
		inventory, MSDS, volume controls, PPE as required,					
		eyewash and showers, locked or controlled areas, postings,					
		labeling, proper containers, segregation, Tier 1 inspections					
General area	Residual radiation,	Postings, training, shielding, RCD surveys, TLD area	5	1	4	20	
radiation	external radiation	monitoring program, RCD oversight, RWP, work planning			-		
Storage of	Residual radiation,	Fenced and posted areas, dosimetry, RWPs, work planning,	5	1	4	20	
Radioactive	external radiation	RCD oversight, inspections, RMA inventories, some areas		1	'	20	
Materials	external radiation	locked, shielding					
Storage of	Residual radiation,	Fenced and posted areas, dosimetry, RWPs, work planning,	5	1	1	20	-
Radioactive Liquids	external radiation,	RCD oversight, inspections, inventories, some areas locked,		1	7	20	
Radioactive Eiquids	contamination	PPE, Article 12 certification					
Storage in general	Being struck by an	Inventory controls, load limits, Tier 1 inspections,	1	1	2	32	
Storage in general	object due to	housekeeping	-	_		32	
	improperly secured	nousekeeping					
	material or loss of						
	control						
Storage in general	Bee stings, airborne	Training, work planning, Tier 1 inspections, clinic, PPE,	4	5	2	40	
Storage in general	pathogens	maintenance.	-	3		40	
	patriogens	mamitenance.					
		The C-AD ESHQ Office stocks Deep Woods OFF, which					
		contains 25% DEET. Raid Wasp Killer is also stocked by					
		the C-AD ESHQ Office for use as self-protection.					
Storage in General	Cuts, abrasions from	Training, PPE, Tier 1 and other inspections, PE carpenter for	1	2	3	24	
Storage III Gelleral			4	~	3	Z4	
Committee	damaged crates	repairs, housekeeping, work planning	1	1	1	1	
Security	None	Locks, Inventory control, Posting, OPM procedures, bar	4	1	1	4	
D C-	T1	coding, camera surveillance, security tours, key control	1	2	A	40	
Roofs	Leaks	Tier 1 inspections, maintenance, work planning, postings,	4	3	4	48	
D C	N( 11 '11	temporary roof, janitors, PE maintenance				2.4	
Roofs	Mold, mildew	Tier 1 inspections, maintenance	4	3	2	24	
Roofs	Electrical equipment	Tier 1 inspections, maintenance, work planning, postings,	4	3	3	36	
	damage	temporary roof, janitors, PE maintenance and surveillance					
Lighting	Poor visibility	Tier 1 inspections, maintenance, emergency lighting,	4	2	2	16	
-00		temporary lighting		~	~		
		winporury righting	1	<u> </u>	1	I	

Lighting	Falls on same level due to poor visibility	Tier 1 inspections, maintenance, emergency lighting, temporary lighting	4	2	2	16					
Lighting					2	16					
Further Description	ion of Controls Added to Reduce	e Risk:									
*Risk:	0 to 20	21 to 40	41-60		61 to 80	81 or	81 or greater				
	Negligible	Acceptable	Moderate			Substantial	Intol	Intolerable			